Special Issue

Correlation Optics

Message from the Guest Editors

Correlation optics has evolved into an exceptionally fascinating and promising domain in modern optics and photonics with diverse technological developments ranging from imaging to communication, from astronomy to industrial metrology, etc. This Special Issue aims to highlight the latest developments in correlation-assisted techniques, including novel theoretical aspects, device design and interesting practical applications that can impact the area of optics and photonics. This Special Issue invites manuscripts that introduce the recent advances in correlation optics and related technologies. For this Special Issue, theoretical, numerical, and experimental papers will be accepted. Topics include, but are not limited to, the following:

- Coherence and polarization;
- Holography;
- Microscopy;
- Speckles;
- Imaging through scattering media;
- Ghost diffraction and imaging;
- Intensity interferometry;
- Metrology;
- Structured light;
- Singular optics;
- Diffractive optics;
- Optical communications;
- Computational optics;
- Compressive sensing;
- Deep learning.

Guest Editors

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Deadline for manuscript submissions

closed (20 December 2023)

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About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).